



DOC0216USSEQ2.txt
SEQUENCE LISTING

<110> Rosanne M. Crooke
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<120> ANTISENSE MODULATION OF APOLIPOPROTEIN B EXPRESSION

<130> DOC-0216US(ISIS.003CP1)

<140> US 10/712,795
<141> 2003-11-13

<150> US 60/426,234
<151> 2002-11-13

<150> PCT/US03/15493
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agctggcg atg gac ccg ccg agg ccc gcg ctg ctg gcg ctg ctg gcg ctg 170
Met Asp Pro Pro Arg Pro Ala Leu Leu Ala Leu Leu Ala Leu
1 5 10

cct gcg ctg ctg ctg ctg ggc gcc agg gca gag gaa 218
Pro Ala Leu Leu Leu Leu Leu Ala Gly Ala Arg Ala Glu Glu Glu
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DOC0216USSEQ2.txt

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aag cac ctc cgg aag tac aca tac aac tat gag gct gag agt tcc agt Lys His Leu Arg Lys Tyr Thr Tyr Asn Tyr Glu Ala Glu Ser Ser Ser 50 55 60	314
gga gtc cct ggg act gct gat tca aga agt gcc acc agg atc aac tgc Gly Val Pro Gly Thr Ala Asp Ser Arg Ser Ala Thr Arg Ile Asn Cys 65 70 75	362
aag gtt gag ctg gag gtt ccc cag ctc tgc agc ttc atc ctg aag acc Lys Val Glu Leu Glu Val Pro Gln Leu Cys Ser Phe Ile Leu Lys Thr 80 85 90	410
agc cag tgc acc ctg aaa gag gtg tat ggc ttc aac cct gag ggc aaa Ser Gln Cys Thr Leu Lys Glu Val Tyr Gly Phe Asn Pro Glu Gly Lys 95 100 105 110	458
gcc ttg ctg aag aaa acc aag aac tct gag gag ttt gct gca gcc atg Ala Leu Leu Lys Lys Thr Lys Asn Ser Glu Glu Phe Ala Ala Ala Met 115 120 125	506
tcc agg tat gag ctc aag ctg gcc att cca gaa ggg aag cag gtt ttc Ser Arg Tyr Glu Leu Lys Leu Ala Ile Pro Glu Gly Lys Gln Val Phe 130 135 140	554
ctt tac ccg gag aaa gat gaa cct act tac atc ctg aac atc aag agg Leu Tyr Pro Glu Lys Asp Glu Pro Thr Tyr Ile Leu Asn Ile Lys Arg 145 150 155	602
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DOC0216USSEQ2.txt

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575				580				585						590	1898
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755						760			765						2426
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DOC0216USSEQ2.txt

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aaa ctg gaa gta gcc aac atg cag gct gaa ctg gtg gca aaa ccc tcc Lys Leu Glu Val Ala Asn Met Gln Ala Glu Leu Val Ala Lys Pro Ser	865	870	875	2762
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tac tgc acc tca ggc gct tac tcc aac gcc agc tcc aca gac tcc gcc Tyr Cys Thr Ser Gly Ala Tyr Ser Asn Ala Ser Ser Thr Asp Ser Ala	975	980	985	3098
tcc tac tat ccg ctg acc ggg gac acc aga tta gag ctg gaa ctg agg Ser Tyr Tyr Pro Leu Thr Gly Asp Thr Arg Leu Glu Leu Glu Leu Arg	995	1000	1005	3146
cct aca gga gag att gag cag tat tct gtc agc gca acc tat gag ctc Pro Thr Gly Glu Ile Glu Gln Tyr Ser Val Ser Ala Thr Tyr Glu Leu	1010	1015	1020	3194
cag aga gag gac aga gcc ttg gtg gat acc ctg aag ttt gta actcaa Gln Arg Glu Asp Arg Ala Leu Val Asp Thr Leu Lys Phe Val Thr Gln	1025	1030	1035	3242
gca gaa ggt gcg aag cag act gag gct acc atg aca ttc aaa tat aat Ala Glu Gly Ala Lys Gln Thr Glu Ala Thr Met Thr Phe Lys Tyr Asn	1040	1045	1050	3290
cgg cag agt atg acc ttg tcc agt gaa gtc caa att ccg gat ttt gat Arg Gln Ser Met Thr Leu Ser Ser Glu Val Gln Ile Pro Asp Phe Asp	1055	1060	1065	3338
gtt gac ctc gga aca atc ctc aga gtt aat gat gaa tct act gag ggc Val Asp Leu Gly Thr Ile Leu Arg Val Asn Asp Glu Ser Thr Glu Gly	1075	1080	1085	3386
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DOC0216USSEQ2.txt

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agt gag atc ctc gcc cac tgg tcg cct gcc aaa ctg ctt ctc caa atg Ser Glu Ile Leu Ala His Trp Ser Pro Ala Lys Leu Leu Leu Gln Met 1135 1140 1145 1150	3578
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ctc cag aac atg gga ttg cca gac ttc cac atc cca gaa aac ctc ttc Leu Gln Asn Met Gly Leu Pro Asp Phe His Ile Pro Glu Asn Leu Phe 1265 1270 1275	3962
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gga ttc cat ctg cca tct cga gag ttc caa gtc cct act ttt acc att Gly Phe His Leu Pro Ser Arg Glu Phe Gln Val Pro Thr Phe Thr Ile 1330 1335 1340	4154
ccc aag ttg tat caa ctg caa gtg cct ctc ctg ggt gtt cta gac ctc Pro Lys Leu Tyr Gln Leu Gln Val Pro Leu Leu Gly Val Leu Asp Leu	4202

DOC0216USSEQ2.txt

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Gly Gly Asn Thr Ser Thr Asp His Phe Ser Leu Arg Ala Arg Tyr His	
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Met Lys Ala Asp Ser Val Val Asp Leu Leu Ser Tyr Asn Val Gln Gly	
1395 1400 1405	
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Ser Gly Glu Thr Thr Tyr Asp His Lys Asn Thr Phe Thr Leu Ser Cys	
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Asp Gly Ser Leu Arg His Lys Phe Leu Asp Ser Asn Ile Lys Phe Ser	
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cat gta gaa aaa ctt gga aac aac cca gtc tca aaa ggt tta cta ata	4490
His Val Glu Lys Leu Gln Asn Asn Pro Val Ser Lys Gly Leu Leu Ile	
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Phe Asp Ala Ser Ser Ser Trp Gly Pro Gln Met Ser Ala Ser Val His	
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Asp Gly Gln Phe Arg Val Ser Ser Phe Tyr Ala Lys Gly Thr Tyr Gly	
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Asn Leu Arg Phe Asn Ser Ser Tyr Leu Gln Gly Thr Asn Gln Ile Thr	
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Gly Arg Tyr Glu Asp Gln Thr Leu Ser Leu Thr Ser Thr Ser Asp Leu	
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Gln Ser Gly Ile Ile Lys Asn Thr Ala Ser Leu Lys Tyr Glu Asn Tyr	
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Glu Leu Thr Leu Lys Ser Asp Thr Asn Gly Lys Tyr Lys Asn Phe Ala	
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act tct aac aag atg gat atg acc ttc tct aag caa aat gca ctg ctg	4922
Thr Ser Asn Lys Met Asp Met Thr Phe Ser Lys Gln Asn Ala Leu Leu	
1585 1590 1595	
cgt tct gaa tat cag gct gat tac gag tca ttg agg ttc ttc agc ctg	4970
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1600 1605 1610	

DOC0216USSEQ2.txt

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tta ggc act gac aaa att aat agt ggt gct cac aag gcg aca cta agg Leu Gly Thr Asp Lys Ile Asn Ser Gly Ala His Lys Ala Thr Leu Arg 1635 1640 1645	5066
att ggc caa gat gga ata tct acc agt gca acg acc aac ttg aag tgt Ile Gly Gln Asp Gly Ile Ser Thr Ser Ala Thr Thr Asn Leu Lys Cys 1650 1655 1660	5114
agt ctc ctg gtg ctg gag aat gag ctg aat gca gag ctt ggc ctc tct Ser Leu Leu Val Leu Glu Asn Glu Leu Asn Ala Glu Leu Gly Leu Ser 1665 1670 1675	5162
ggg gca tct atg aaa tta aca aca aat ggc cgc ttc agg gaa cac aat Gly Ala Ser Met Lys Leu Thr Thr Asn Gly Arg Phe Arg Glu His Asn 1680 1685 1690	5210
gca aaa ttc agt ctg gat ggg aaa gcc gcc ctc aca gag cta tca ctg Ala Lys Phe Ser Leu Asp Gly Lys Ala Ala Leu Thr Glu Leu Ser Leu 1695 1700 1705 1710	5258
gga agt gct tat cag gcc atg att ctg ggt gtc gac agc aaa aac att Gly Ser Ala Tyr Gln Ala Met Ile Leu Gly Val Asp Ser Lys Asn Ile 1715 1720 1725	5306
ttc aac ttc aag gtc agt caa gaa gga ctt aag ctc tca aat gac atg Phe Asn Phe Lys Val Ser Gln Glu Gly Leu Lys Leu Ser Asn Asp Met 1730 1735 1740	5354
atg ggc tca tat gct gaa atg aaa ttt gac cac aca aac agt ctg aac Met Gly Ser Tyr Ala Glu Met Lys Phe Asp His Thr Asn Ser Leu Asn 1745 1750 1755	5402
att gca ggc tta tca ctg gac ttc tct tca aaa ctt gac aac att tac Ile Ala Gly Leu Ser Leu Asp Phe Ser Ser Lys Leu Asp Asn Ile Tyr 1760 1765 1770	5450
agc tct gac aag ttt tat aag caa act gtt aat tta cag cta cag ccc Ser Ser Asp Lys Phe Tyr Lys Gln Thr Val Asn Leu Gln Leu Gln Pro 1775 1780 1785 1790	5498
tat tct ctg gta act act tta aac agt gac ctg aaa tac aat gct ctg Tyr Ser Leu Val Thr Thr Leu Asn Ser Asp Leu Lys Tyr Asn Ala Leu 1795 1800 1805	5546
gat ctc acc aac aat ggg aaa cta cgg cta gaa ccc ctg aag ctg cat Asp Leu Thr Asn Asn Gly Lys Leu Arg Leu Glu Pro Leu Lys Leu His 1810 1815 1820	5594
gtg gct ggt aac cta aaa gga gcc tac caa aat aat gaa ata aaa cac Val Ala Gly Asn Leu Lys Gly Ala Tyr Gln Asn Asn Glu Ile Lys His 1825 1830 1835	5642
atc tat gcc atc tct tct gct gcc tta tca gca agc tat aaa gca gac Ile Tyr Ala Ile Ser Ser Ala Ala Leu Ser Ala Ser Tyr Lys Ala Asp 1840 1845 1850	5690
act gtt gct aag gtt cag ggt gtg gag ttt agc cat cgg ctc aac aca Thr Val Ala Lys Val Gln Gly Val Glu Phe Ser His Arg Leu Asn Thr 1855 1860 1865 1870	5738
gac atc gct ggg ctg gct tca gcc att gac atg agc aca aac tat aat	5786

DOC0216USSEQ2.txt

Asp Ile Ala Gly Leu Ala Ser Ala Ile Asp Met Ser Thr Asn Tyr Asn 1875 1880 1885		
tca gac tca ctg cat ttc agc aat gtc ttc cgt tct gta atg gcc ccg Ser Asp Ser Leu His Phe Ser Asn Val Phe Arg Ser Val Met Ala Pro 1890 1895 1900	5834	
ttt acc atg acc atc gat gca cat aca aat ggc aat ggg aaa ctc gct Phe Thr Met Thr Ile Asp Ala His Thr Asn Gly Asn Gly Lys Leu Ala 1905 1910 1915	5882	
ctc tgg gga gaa cat act ggg cag ctg tat agc aaa ttc ctg ttg aaa Leu Trp Gly Glu His Thr Gly Gln Leu Tyr Ser Lys Phe Leu Leu Lys 1920 1925 1930	5930	
gca gaa cct ctg gca ttt act ttc tct cat gat tac aaa ggc tcc aca Ala Glu Pro Leu Ala Phe Thr Phe Ser His Asp Tyr Lys Gly Ser Thr 1935 1940 1945 1950	5978	
agt cat cat ctc gtg tct agg aaa agc atc agt gca gct ctt gaa cac Ser His His Leu Val Ser Arg Lys Ser Ile Ser Ala Ala Leu Glu His 1955 1960 1965	6026	
aaa gtc agt gcc ctg ctt act cca gct gag cag aca ggc acc tgg aaa Lys Val Ser Ala Leu Leu Thr Pro Ala Glu Gln Thr Gly Thr Trp Lys 1970 1975 1980	6074	
ctc aag acc caa ttt aac aac aat gaa tac agc cag gac ttg gat gct Leu Lys Thr Gln Phe Asn Asn Glu Tyr Ser Gln Asp Leu Asp Ala 1985 1990 1995	6122	
tac aac act aaa gat aaa att ggc gtg gag ctt act gga cga act ctg Tyr Asn Thr Lys Asp Lys Ile Gln Val Glu Leu Thr Gly Arg Thr Leu 2000 2005 2010	6170	
gct gac cta act cta cta gac tcc cca att aaa gtg cca ctt tta ctc Ala Asp Leu Thr Leu Leu Asp Ser Pro Ile Lys Val Pro Leu Leu Leu 2015 2020 2025 2030	6218	
agt gag ccc atc aat atc att gat gct tta gag atg aga gat gcc gtt Ser Glu Pro Ile Asn Ile Ile Asp Ala Leu Glu Met Arg Asp Ala Val 2035 2040 2045	6266	
gag aag ccc caa gaa ttt aca att gtt gct ttt gta aag tat gat aaa Glu Lys Pro Gln Glu Phe Thr Ile Val Ala Phe Val Lys Tyr Asp Lys 2050 2055 2060	6314	
aac caa gat gtt cac tcc att aac ctc cca ttt ttt gag acc ttg caa Asn Gln Asp Val His Ser Ile Asn Leu Pro Phe Phe Glu Thr Leu Gln 2065 2070 2075	6362	
gaa tat ttt gag agg aat cga caa acc att ata gtt gta gtg gaa aac Glu Tyr Phe Glu Arg Asn Arg Gln Thr Ile Ile Val Val Val Glu Asn 2080 2085 2090	6410	
gta cag aga aac ctg aag cac atc aat att gat caa ttt gta aga aaa Val Gln Arg Asn Leu Lys His Ile Asn Ile Asp Gln Phe Val Arg Lys 2095 2100 2105 2110	6458	
tac aga gca gcc ctg gga aaa ctc cca cag caa gct aat gat tat ctg Tyr Arg Ala Ala Leu Gln Lys Leu Pro Gln Gln Ala Asn Asp Tyr Leu 2115 2120 2125	6506	
aat tca ttc aat tgg gag aga caa gtt tca cat gcc aag gag aaa ctg Asn Ser Phe Asn Trp Glu Arg Gln Val Ser His Ala Lys Glu Lys Leu 2130 2135 2140	6554	

DOC0216USSEQ2.txt

act gct ctc aca aaa aag tat aga att aca gaa aat gat ata caa att Thr Ala Leu Thr Lys Lys Tyr Arg Ile Thr Glu Asn Asp Ile Gln Ile 2145 2150 2155	6602
gca tta gat gat gcc aaa atc aac ttt aat gaa aaa cta tct caa ctg Ala Leu Asp Asp Ala Lys Ile Asn Phe Asn Glu Lys Leu Ser Gln Leu 2160 2165 2170	6650
cag aca tat atg ata caa ttt gat cag tat att aaa gat agt tat gat Gln Thr Tyr Met Ile Gln Phe Asp Gln Tyr Ile Lys Asp Ser Tyr Asp 2175 2180 2185 2190	6698
tta cat gat ttg aaa ata gct att gct aat att att gat gaa atc att Leu His Asp Leu Lys Ile Ala Ile Ala Asn Ile Ile Asp Glu Ile Ile 2195 2200 2205	6746
gaa aaa tta aaa agt ctt gat gag cac tat cat atc cgt gta aat tta Glu Lys Leu Lys Ser Leu Asp Glu His Tyr His Ile Arg Val Asn Leu 2210 2215 2220	6794
gta aaa aca atc cat gat cta cat ttg ttt att gaa aat att gat ttt Val Lys Thr Ile His Asp Leu His Leu Phe Ile Glu Asn Ile Asp Phe 2225 2230 2235	6842
aac aaa agt gga agt agt act gca tcc tgg att caa aat gtg gat act Asn Lys Ser Gly Ser Ser Thr Ala Ser Trp Ile Gln Asn Val Asp Thr 2240 2245 2250	6890
aag tac caa atc aga atc cag ata caa gaa aaa ctg cag cag ctt aag Lys Tyr Gln Ile Arg Ile Gln Ile Gln Glu Lys Leu Gln Gln Leu Lys 2255 2260 2265 2270	6938
aga cac ata cag aat ata gac atc cag cac cta gct gga aag tta aaa Arg His Ile Gln Asn Ile Asp Ile Gln His Leu Ala Gly Lys Leu Lys 2275 2280 2285	6986
caa cac att gag gct att gat gtt aga gtg ctt tta gat caa ttg gga Gln His Ile Glu Ala Ile Asp Val Arg Val Leu Leu Asp Gln Leu Gly 2290 2295 2300	7034
act aca att tca ttt gaa aga ata aat gat gtt ctt gag cat gtc aaa Thr Thr Ile Ser Phe Glu Arg Ile Asn Asp Val Leu Glu His Val Lys 2305 2310 2315	7082
cac ttt gtt ata aat ctt att ggg gat ttt gaa gta gct gag aaa atc His Phe Val Ile Asn Leu Ile Gly Asp Phe Glu Val Ala Glu Lys Ile 2320 2325 2330	7130
aat gcc ttc aga gcc aaa gtc cat gag tta atc gag agg tat gaa gta Asn Ala Phe Arg Ala Lys Val His Glu Leu Ile Glu Arg Tyr Glu Val 2335 2340 2345 2350	7178
gac caa caa atc cag gtt tta atg gat aaa tta gta gag ttg acc cac Asp Gln Gln Ile Gln Val Leu Met Asp Lys Leu Val Glu Leu Thr His 2355 2360 2365	7226
caa tac aag ttg aag gag act att cag aag cta agc aat gtc cta caa Gln Tyr Lys Leu Lys Glu Thr Ile Gln Lys Leu Ser Asn Val Leu Gln 2370 2375 2380	7274
caa gtt aag ata aaa gat tac ttt gag aaa ttg gtt gga ttt att gat Gln Val Lys Ile Lys Asp Tyr Phe Glu Lys Leu Val Gly Phe Ile Asp 2385 2390 2395	7322
gat gct gtg aag aag ctt aat gaa tta tct ttt aaa aca ttc att gaa	7370

DOC0216USSEQ2.txt

Asp Ala Val Lys Lys Leu Asn Glu Leu Ser Phe Lys Thr Phe Ile Glu			
2400	2405	2410	
gat gtt aac aaa ttc ctt gac atg ttg ata aag aaa tta aag tca ttt			7418
Asp Val Asn Lys Phe Leu Asp Met Leu Ile Lys Lys Leu Lys Ser Phe			
2415	2420	2425	2430
gat tac cac cag ttt gta gat gaa acc aat gac aaa atc cgt gag gtg			7466
Asp Tyr His Gln Phe Val Asp Glu Thr Asn Asp Lys Ile Arg Glu Val			
2435	2440	2445	
act cag aga ctc aat ggt gaa att cag gct ctg gaa cta cca caa aaa			7514
Thr Gln Arg Leu Asn Gly Glu Ile Gln Ala Leu Glu Leu Pro Gln Lys			
2450	2455	2460	
gct gaa gca tta aaa ctg ttt tta gag gaa acc aag gcc aca gtt gca			7562
Ala Glu Ala Leu Lys Leu Phe Leu Glu Glu Thr Lys Ala Thr Val Ala			
2465	2470	2475	
gtg tat ctg gaa agc cta cag gac acc aaa ata acc tta atc atc aat			7610
Val Tyr Leu Glu Ser Leu Gln Asp Thr Lys Ile Thr Leu Ile Ile Asn			
2480	2485	2490	
tgg tta cag gag gct tta agt tca gca tct ttg gct cac atg aag gcc			7658
Trp Leu Gln Glu Ala Leu Ser Ser Ala Ser Leu Ala His Met Lys Ala			
2495	2500	2505	2510
aaa ttc cga gag act cta gaa gat aca cga gac cga atg tat caa atg			7706
Lys Phe Arg Glu Thr Leu Glu Asp Thr Arg Asp Arg Met Tyr Gln Met			
2515	2520	2525	
gac att cag cag gaa ctt caa cga tac ctg tct ctg gta ggc cag gtt			7754
Asp Ile Gln Gln Glu Leu Gln Arg Tyr Leu Ser Leu Val Gly Gln Val			
2530	2535	2540	
tat agc aca ctt gtc acc tac att tct gat tgg tgg act ctt gct gct			7802
Tyr Ser Thr Leu Val Thr Tyr Ile Ser Asp Trp Trp Thr Leu Ala Ala			
2545	2550	2555	
aag aac ctt act gac ttt gca gag caa tat tct atc caa gat tgg gct			7850
Lys Asn Leu Thr Asp Phe Ala Glu Gln Tyr Ser Ile Gln Asp Trp Ala			
2560	2565	2570	
aaa cgt atg aaa gca ttg gta gag caa ggg ttc act gtt cct gaa atc			7898
Lys Arg Met Lys Ala Leu Val Glu Gln Gly Phe Thr Val Pro Glu Ile			
2575	2580	2585	2590
aag acc atc ctt ggg acc atg cct gcc ttt gaa gtc agt ctt cag gct			7946
Lys Thr Ile Leu Gly Thr Met Pro Ala Phe Glu Val Ser Leu Gln Ala			
2595	2600	2605	
ctt cag aaa gct acc ttc cag aca cct gat ttt ata gtc ccc cta aca			7994
Leu Gln Lys Ala Thr Phe Gln Thr Pro Asp Phe Ile Val Pro Leu Thr			
2610	2615	2620	
gat ttg agg att cca tca gtt cag ata aac ttc aaa gac tta aaa aat			8042
Asp Leu Arg Ile Pro Ser Val Gln Ile Asn Phe Lys Asp Leu Lys Asn			
2625	2630	2635	
ata aaa atc cca tcc agg ttt tcc aca cca gaa ttt acc atc ctt aac			8090
Ile Lys Ile Pro Ser Arg Phe Ser Thr Pro Glu Phe Thr Ile Leu Asn			
2640	2645	2650	
acc ttc cac att cct tcc ttt aca att gac ttt gtc gaa atg aaa gta			8138
Thr Phe His Ile Pro Ser Phe Thr Ile Asp Phe Val Glu Met Lys Val			
2655	2660	2665	2670

DOC0216USSEQ2.txt

aag atc atc aga acc att gac cag atg cag aac aat gag ctg cag tgg Lys Ile Ile Arg Thr Ile Asp Gln Met Gln Asn Ser Glu Leu Gln Trp 2675 2680 2685	8186
ccc gtt cca gat ata tat ctc agg gat ctg aag gtg gag gac att cct Pro Val Pro Asp Ile Tyr Leu Arg Asp Leu Lys Val Glu Asp Ile Pro 2690 2695 2700	8234
cta gcg aga atc acc ctg cca gac ttc cgt tta cca gaa atc gca att Leu Ala Arg Ile Thr Leu Pro Asp Phe Arg Leu Pro Glu Ile Ala Ile 2705 2710 2715	8282
cca gaa ttc ata atc cca act ctc aac ctt aat gat ttt caa gtt cct Pro Glu Phe Ile Ile Pro Thr Leu Asn Leu Asn Asp Phe Gln Val Pro 2720 2725 2730	8330
gac ctt cac ata cca gaa ttc cag ctt ccc cac atc tca cac aca att Asp Leu His Ile Pro Glu Phe Gln Leu Pro His Ile Ser His Thr Ile 2735 2740 2745 2750	8378
gaa gta cct act ttt ggc aag cta tac agt att ctg aaa atc caa tct Glu Val Pro Thr Phe Gly Lys Leu Tyr Ser Ile Leu Lys Ile Gln Ser 2755 2760 2765	8426
cct ctt ttc aca tta gat gca aat gct gac ata ggg aat gga acc acc Pro Leu Phe Thr Leu Asp Ala Asn Ala Asp Ile Gly Asn Gly Thr Thr 2770 2775 2780	8474
tca gca aac gaa gca ggt atc gca gct tcc atc act gcc aaa gga gag Ser Ala Asn Glu Ala Gly Ile Ala Ser Ile Thr Ala Lys Gly Glu 2785 2790 2795	8522
tcc aaa tta gaa gtt ctc aat ttt gat ttt caa gca aat gca caa ctc Ser Lys Leu Glu Val Leu Asn Phe Asp Phe Gln Ala Asn Ala Gln Leu 2800 2805 2810	8570
tca aac cct aag att aat ccg ctg gct ctg aag gag tca gtg aag ttc Ser Asn Pro Lys Ile Asn Pro Leu Ala Leu Lys Glu Ser Val Lys Phe 2815 2820 2825 2830	8618
tcc agc aag tac ctg aga acg gag cat ggg agt gaa atg ctg ttt ttt Ser Ser Lys Tyr Leu Arg Thr Glu His Gly Ser Glu Met Leu Phe Phe 2835 2840 2845	8666
gga aat gct att gag gga aaa tca aac aca gtg gca agt tta cac aca Gly Asn Ala Ile Glu Gly Lys Ser Asn Thr Val Ala Ser Leu His Thr 2850 2855 2860	8714
gaa aaa aat aca ctg gag ctt agt aat gga gtg att gtc aag ata aac Glu Lys Asn Thr Leu Glu Leu Ser Asn Gly Val Ile Val Lys Ile Asn 2865 2870 2875	8762
aat cag ctt acc ctg gat agc aac act aaa tac ttc cac aaa ttg aac Asn Gln Leu Thr Leu Asp Ser Asn Thr Lys Tyr Phe His Lys Leu Asn 2880 2885 2890	8810
atc ccc aaa ctg gac ttc tct agt cag gct gac ctg cgc aac gag atc Ile Pro Lys Leu Asp Phe Ser Ser Gln Ala Asp Leu Arg Asn Glu Ile 2895 2900 2905 2910	8858
aag aca ctg ttg aaa gct ggc cac ata gca tgg act tct tct gga aaa Lys Thr Leu Leu Lys Ala Gly His Ile Ala Trp Thr Ser Ser Gly Lys 2915 2920 2925	8906
ggg tca tgg aaa tgg gcc tgc ccc aga ttc tca gat gag gga aca cat	8954

DOC0216USSEQ2.txt

Gly Ser Trp Lys Trp Ala Cys Pro Arg Phe Ser Asp Glu Gly Thr His			
2930	2935	2940	
gaa tca caa att agt ttc acc ata gaa gga ccc ctc act tcc ttt gga			9002
Glu Ser Gln Ile Ser Phe Thr Ile Glu Gly Pro Leu Thr Ser Phe Gly			
2945	2950	2955	
ctg tcc aat aag atc aat agc aaa cac cta aga gta aac caa aac ttg			9050
Leu Ser Asn Lys Ile Asn Ser Lys His Leu Arg Val Asn Gln Asn Leu			
2960	2965	2970	
gtt tat gaa tct ggc tcc ctc aac ttt tct aaa ctt gaa att caa tca			9098
Val Tyr Glu Ser Gly Ser Leu Asn Phe Ser Lys Leu Glu Ile Gln Ser			
2975	2980	2985	2990
caa gtc gat tcc cag cat gtg ggc cac agt gtt cta act gct aaa ggc			9146
Gln Val Asp Ser Gln His Val Gly His Ser Val Leu Thr Ala Lys Gly			
2995	3000	3005	
atg gca ctg ttt gga gaa ggg aag gca gag ttt act ggg agg cat gat			9194
Met Ala Leu Phe Gly Glu Gly Lys Ala Glu Phe Thr Gly Arg His Asp			
3010	3015	3020	
gct cat tta aat gga aag gtt att gga act ttg aaa aat tct ctt ttc			9242
Ala His Leu Asn Gly Lys Val Ile Gly Thr Leu Lys Asn Ser Leu Phe			
3025	3030	3035	
ttt tca gcc cag cca ttt gag atc acg gca tcc aca aac aat gaa ggg			9290
Phe Ser Ala Gln Pro Phe Glu Ile Thr Ala Ser Thr Asn Asn Glu Gly			
3040	3045	3050	
aat ttg aaa gtt cgt ttt cca tta agg tta aca ggg aag ata gac ttc			9338
Asn Leu Lys Val Arg Phe Pro Leu Arg Leu Thr Gly Lys Ile Asp Phe			
3055	3060	3065	3070
ctg aat aac tat gca ctg ttt ctg agt ccc agt gcc cag caa gca agt			9386
Leu Asn Asn Tyr Ala Leu Phe Leu Ser Pro Ser Ala Gln Gln Ala Ser			
3075	3080	3085	
tgg caa gta agt gct agg ttc aat cag tat aag tac aac caa aat ttc			9434
Trp Gln Val Ser Ala Arg Phe Asn Gln Tyr Lys Tyr Asn Gln Asn Phe			
3090	3095	3100	
tct gct gga aac aac gag aac att atg gag gcc cat gta gga ata aat			9482
Ser Ala Gly Asn Asn Glu Asn Ile Met Glu Ala His Val Gly Ile Asn			
3105	3110	3115	
gga gaa gca aat ctg gat ttc tta aac att cct tta aca att cct gaa			9530
Gly Glu Ala Asn Leu Asp Phe Leu Asn Ile Pro Leu Thr Ile Pro Glu			
3120	3125	3130	
atg cgt cta cct tac aca ata atc aca act cct cca ctg aaa gat ttc			9578
Met Arg Leu Pro Tyr Thr Ile Ile Thr Thr Pro Pro Leu Lys Asp Phe			
3135	3140	3145	3150
tct cta tgg gaa aaa aca ggc ttg aag gaa ttc ttg aaa acg aca aag			9626
Ser Leu Trp Glu Lys Thr Gly Leu Lys Glu Phe Leu Lys Thr Thr Lys			
3155	3160	3165	
caa tca ttt gat tta agt gta aaa gct cag tat aag aaa aac aaa cac			9674
Gln Ser Phe Asp Leu Ser Val Lys Ala Gln Tyr Lys Lys Asn Lys His			
3170	3175	3180	
agg cat tcc atc aca aat cct ttg gct gtg ctt tgt gag ttt atc agt			9722
Arg His Ser Ile Thr Asn Pro Leu Ala Val Leu Cys Glu Phe Ile Ser			
3185	3190	3195	

DOC0216USSEQ2.txt

cag agc atc aaa tcc ttt gac agg cat ttt gaa aaa aac aga aac aat Gln Ser Ile Lys Ser Phe Asp Arg His Phe Glu Lys Asn Arg Asn Asn 3200 3205 3210	9770
gca tta gat ttt gtc acc aaa tcc tat aat gaa aca aaa att aag ttt Ala Leu Asp Phe Val Thr Lys Ser Tyr Asn Glu Thr Lys Ile Lys Phe 3215 3220 3225 3230	9818
gat aag tac aaa gct gaa aaa tct cac gac gag ctc ccc agg acc ttt Asp Lys Tyr Lys Ala Glu Lys Ser His Asp Glu Leu Pro Arg Thr Phe 3235 3240 3245	9866
caa att cct gga tac act gtt cca gtt gtc aat gtt gaa gtg tct cca Gln Ile Pro Gly Tyr Thr Val Pro Val Val Asn Val Glu Val Ser Pro 3250 3255 3260	9914
ttc acc ata gag atg tcg gca ttc ggc tat gtg ttc cca aaa gca gtc Phe Thr Ile Glu Met Ser Ala Phe Gly Tyr Val Phe Pro Lys Ala Val 3265 3270 3275	9962
agc atg cct agt ttc tcc atc cta ggt tct gac gtc cgt gtg cct tca Ser Met Pro Ser Phe Ser Ile Leu Gly Ser Asp Val Arg Val Pro Ser 3280 3285 3290	10010
tac aca tta atc ctg cca tca tta gag ctg cca gtc ctt cat gtc cct Tyr Thr Leu Ile Leu Pro Ser Leu Glu Leu Pro Val Leu His Val Pro 3295 3300 3305 3310	10058
aga aat ctc aag ctt tct ctt cca cat ttc aag gaa ttg tgt acc ata Arg Asn Leu Lys Leu Ser Leu Pro His Phe Lys Glu Leu Cys Thr Ile 3315 3320 3325	10106
agc cat att ttt att cct gcc atg ggc aat att acc tat gat ttc tcc Ser His Ile Phe Ile Pro Ala Met Gly Asn Ile Thr Tyr Asp Phe Ser 3330 3335 3340	10154
ttt aaa tca agt gtc atc aca ctg aat acc aat gct gaa ctt ttt aac Phe Lys Ser Ser Val Ile Thr Leu Asn Thr Asn Ala Glu Leu Phe Asn 3345 3350 3355	10202
cag tca gat att gtt gct cat ctc ctt tct tca tct tca tct gtc att Gln Ser Asp Ile Val Ala His Leu Leu Ser Ser Ser Ser Val Ile 3360 3365 3370	10250
gat gca ctg cag tac aaa tta gag ggc acc aca aga ttg aca aga aaa Asp Ala Leu Gln Tyr Lys Leu Glu Gly Thr Thr Arg Leu Thr Arg Lys 3375 3380 3385 3390	10298
agg gga ttg aag tta gcc aca gct ctg tct ctg agc aac aaa ttt gtg Arg Gly Leu Lys Leu Ala Thr Ala Leu Ser Leu Ser Asn Lys Phe Val 3395 3400 3405	10346
gag ggt agt cat aac agt act gtg agc tta acc acg aaa aat atg gaa Glu Gly Ser His Asn Ser Thr Val Ser Leu Thr Thr Lys Asn Met Glu 3410 3415 3420	10394
gtg tca gtg gca aaa acc aca aaa gcc gaa att cca att ttg aga atg Val Ser Val Ala Lys Thr Thr Lys Ala Glu Ile Pro Ile Leu Arg Met 3425 3430 3435	10442
aat ttc aag caa gaa ctt aat gga aat acc aag tca aaa cct act gtc Asn Phe Lys Gln Glu Leu Asn Gly Asn Thr Lys Ser Lys Pro Thr Val 3440 3445 3450	10490
tct tcc tcc atg gaa ttt aag tat gat ttc aat tct tca atg ctg tac	10538

DOC0216USSEQ2.txt

Ser Ser Ser Met Glu Phe Lys Tyr Asp Phe Asn Ser Ser Met Leu Tyr		
3455 3460 3465 3470		
tct acc gct aaa gga gca gtt gac cac aag ctt agc ttg gaa agc ctc	10586	
Ser Thr Ala Lys Gly Ala Val Asp His Lys Leu Ser Leu Glu Ser Leu		
3475 3480 3485		
acc tct tac ttt tcc att gag tca tct acc aaa gga gat gtc aag ggt	10634	
Thr Ser Tyr Phe Ser Ile Glu Ser Ser Thr Lys Gly Asp Val Lys Gly		
3490 3495 3500		
tcg gtt ctt tct cgg gaa tat tca gga act att gct agt gag gcc aac	10682	
Ser Val Leu Ser Arg Glu Tyr Ser Gly Thr Ile Ala Ser Glu Ala Asn		
3505 3510 3515		
act tac ttg aat tcc aag agc aca cgg tct tca gtg aag ctg cag ggc	10730	
Thr Tyr Leu Asn Ser Lys Ser Thr Arg Ser Ser Val Lys Leu Gln Gly		
3520 3525 3530		
act tcc aaa att gat gat atc tgg aac ctt gaa gta aaa gaa aat ttt	10778	
Thr Ser Lys Ile Asp Asp Ile Trp Asn Leu Glu Val Lys Glu Asn Phe		
3535 3540 3545 3550		
gct gga gaa gcc aca ctc caa cgc ata tat tcc ctc tgg gag cac agt	10826	
Ala Gly Glu Ala Thr Leu Gln Arg Ile Tyr Ser Leu Trp Glu His Ser		
3555 3560 3565		
acg aaa aac cac tta cag cta gag ggc ctc ttt ttc acc aac gga gaa	10874	
Thr Lys Asn His Leu Gln Leu Glu Gly Leu Phe Phe Thr Asn Gly Glu		
3570 3575 3580		
cat aca agc aaa gcc acc ctg gaa ctc tct cca tgg caa atg tca gct	10922	
His Thr Ser Lys Ala Thr Leu Glu Leu Ser Pro Trp Gln Met Ser Ala		
3585 3590 3595		
ctt gtt cag gtc cat gca agt cag ccc agt tcc ttc cat gat ttc cct	10970	
Leu Val Gln Val His Ala Ser Gln Pro Ser Ser Phe His Asp Phe Pro		
3600 3605 3610		
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3650 3655 3660		
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DOC0216USSEQ2.txt

3715

3720

3725

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3975

3980

12122

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 Phe Thr Asp Leu His Leu Arg Tyr Gln Lys Asp Lys Lys Gly Ile Ser
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12170

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12218

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12266

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 4035 4040 4045

12314

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12362

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12410

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 4080 4085 4090

12458

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12506

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 4115 4120 4125

12554

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 4130 4135 4140

12602

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 4145 4150 4155

12650

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 4160 4165 4170

12698

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 4175 4180 4185 4190

12746

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 4195 4200 4205

12794

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 4210 4215 4220

12842

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 4225 4230 4235

12890

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aca atc ttc aat gat tat atc cca tat gtt ttt aaa ttg ttg aaa gaa Thr Ile Phe Asn Asp Tyr Ile Pro Tyr Val Phe Lys Leu Leu Lys Glu 4335 4340 4345 4350	13178
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ctt cag gaa gct tct caa gag tta cag cag atc cat caa tac att atg Leu Gln Glu Ala Ser Gln Glu Leu Gln Ile His Gln Tyr Ile Met 4370 4375 4380	13274
gcc ctt cgt gaa gaa tat ttt gat cca agt ata gtt ggc tgg aca gtg Ala Leu Arg Glu Glu Tyr Phe Asp Pro Ser Ile Val Gly Trp Thr Val 4385 4390 4395	13322
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caa tca acc aca gtc atg aac ccc tac atg aag ctt gct cca gga gaa Gln Ser Thr Thr Val Met Asn Pro Tyr Met Lys Leu Ala Pro Gly Glu 4545	4550	4555		13802
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DOC0216USSEQ2.txt

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 Leu Leu Leu Leu Leu Ala Gly Ala Arg Ala Glu Glu Glu Met Leu
20 25 30

gaa aat gtc agc ctg gtc tgt cca aaa gat gcg acc cga ttc aag cac 144
 Glu Asn Val Ser Leu Val Cys Pro Lys Asp Ala Thr Arg Phe Lys His
 35 40 45

ctc cg^g aag tac aca tac aac tat gag gct gag agt tcc agt gga gtc 192
 Leu Arg Lys Tyr Thr Tyr Asn Tyr Glu Ala Glu Ser Ser Ser Gly Val
 50 55 60

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cct ggg act gct gat tca aga agt gcc acc agg atc aac tgc aag gtt 240
Pro Gly Thr Ala Asp Ser Arg Ser Ala Thr Arg Ile Asn Cys Lys Val
   65          70          75          80

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 Glu Leu Glu Val Pro Gln Leu Cys Ser Phe Ile Leu Lys Thr Ser Gln
 85 90 95

tgc acc ctg aaa gag gtg tat ggc ttc aac cct gag ggc aaa gcc ttg	336		
Cys Thr Leu Lys Glu Val Tyr Gly Phe Asn Pro Glu Gly Lys Ala Leu			
100	105	110	

ctg aag aaa acc aag aac tct gag gag ttt gct gca gcc atg tcc agg 384
 Leu Lys Lys Thr Lys Asn Ser Glu Glu Phe Ala Ala Ala Met Ser Arg
 115 120 125

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Tyr Glu Leu Lys Leu Ala Ile Pro Glu Gly Lys Gln Val Phe Leu Tyr
130          135          140

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 Pro Glu Lys Asp Glu Pro Thr Tyr Ile Leu Asn Ile Lys Arg Gly Ile
 145 150 155 160

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Ile Ser Ala Leu Leu Val Pro Pro Glu Thr Glu Glu Ala Lys Gln Val
165          170          175

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180 185 190
aag acg agg aag ggc aat gtg gca aca gaa ata tcc act gaa aga gac 624

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ctt gct ctc atc aaa ggc atg acc cgc ccc ttg tca act ctg atc agc Leu Ala Leu Ile Lys Gly Met Thr Arg Pro Leu Ser Thr Leu Ile Ser	225 230	235	720
agc agc cag tcc tgt cag tac aca ctg gac gct aag agg aag cat gtg Ser Ser Gln Ser Cys Gln Tyr Thr Leu Asp Ala Lys Arg Lys His Val	245	250	768
gca gaa gcc atc tgc aag gag caa cac ctc ttc ctg cct ttc tcc tac Ala Glu Ala Ile Cys Lys Glu Gln His Leu Phe Leu Pro Phe Ser Tyr	260	265	816
aag aat aag tat ggg atg gta gca caa gtg aca cag act ttg aaa ctt Lys Asn Lys Tyr Gly Met Val Ala Gln Val Thr Gln Thr Leu Lys Leu	275	280	864
gaa gac aca cca aag atc aac agc cgc ttc ttt ggt gaa ggt act aag Glu Asp Thr Pro Lys Ile Asn Ser Arg Phe Phe Gly Glu Gly Thr Lys	290	295	912
300	300		
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335	335		
atc tct gag caa aat atc cag aga gct aat ctc ttc aat aag ctg gtt Ile Ser Glu Gln Asn Ile Gln Arg Ala Asn Leu Phe Asn Lys Leu Val	340	345	1056
350	350		
act gag ctg aga ggc ctc agt gat gaa gca gtc aca tct ctc ttg cca Thr Glu Leu Arg Gly Leu Ser Asp Glu Ala Val Thr Ser Leu Leu Pro	355	360	1104
365	365		
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380	380		
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395	395		
400	400		
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415	415		
ctg atc ccc gag ccc tca gca cag cag ctg cga gag atc ttc aac atg Leu Ile Pro Glu Pro Ser Ala Gln Gln Leu Arg Glu Ile Phe Asn Met	420	425	1296
430	430		
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445	445		
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460	460		
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DOC0216USSEQ2.txt

BGC021003SEQ2.txt															
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Asp	Glu	Asp	Tyr	Thr	Tyr	Leu	Ile	Leu	Arg	Val	Ile	Gly	Asn	Met	Gly
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caa	acc	atg	gag	cag	tta	act	cca	gaa	ctc	aag	tct	tca	atc	ctg	aaa
Gln	Thr	Met	Glu	Gln	Leu	Thr	Pro	Glu	Leu	Lys	Ser	Ser	Ile	Leu	Lys
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Cys	Val	Gln	Ser	Thr	Lys	Pro	Ser	Leu	Met	Ile	Gln	Lys	Ala	Ala	Ile
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Gln	Ala	Leu	Arg	Lys	Met	Glu	Pro	Lys	Asp	Lys	Asp	Gln	Glu	Val	Leu
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Leu	Gln	Thr	Phe	Leu	Asp	Asp	Ala	Ser	Pro	Gly	Asp	Lys	Arg	Leu	Ala
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gcc	tat	ctt	atg	ttg	atg	agg	agt	cct	tca	cag	gca	gat	att	aac	aaa
Ala	Tyr	Leu	Met	Leu	Met	Arg	Ser	Pro	Ser	Gln	Ala	Asp	Ile	Asn	Lys
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Ile	Val	Gln	Ile	Leu	Pro	Trp	Glu	Gln	Asn	Glu	Gln	Val	Lys	Asn	Phe
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gtg	gct	tcc	cat	att	gcc	aat	atc	ttg	aac	tca	gaa	gaa	ttg	gat	atc
Val	Ala	Ser	His	Ile	Ala	Asn	Ile	Leu	Asn	Ser	Glu	Glu	Leu	Asp	Ile
				595				600				605			
caa	gat	ctg	aaa	aag	tta	gtg	aaa	gaa	gct	ctg	aaa	gaa	tct	caa	ctt
Gln	Asp	Leu	Lys	Lys	Leu	Val	Lys	Glu	Ala	Leu	Lys	Glu	Ser	Gln	Leu
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cca	act	gtc	atg	gac	ttc	aga	aaa	ttc	tct	ccg	aac	tat	caa	ctc	tac
Pro	Thr	Val	Met	Asp	Phe	Arg	Lys	Phe	Ser	Arg	Asn	Tyr	Gln	Leu	Tyr
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aaa	tct	gtt	tct	ctt	cca	tca	ctt	gac	cca	gcc	tca	gcc	aaa	ata	gaa
Lys	Ser	Val	Ser	Leu	Pro	Ser	Leu	Asp	Pro	Ala	Ser	Ala	Lys	Ile	Glu
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Gly	Asn	Leu	Ile	Phe	Asp	Pro	Asn	Asn	Tyr	Leu	Pro	Lys	Glu	Ser	Met
				660				665					670		
ctg	aaa	act	acc	ctc	act	gcc	ttt	gga	ttt	gct	tca	gct	gac	ctc	atc
Leu	Lys	Thr	Thr	Leu	Thr	Ala	Phe	Gly	Phe	Ala	Ser	Ala	Asp	Leu	Ile
				675				680				685			
gag	att	ggc	ttg	gaa	gga	aaa	ggc	ttt	gag	cca	aca	ttg	gag	gct	cct
Glu	Ile	Gly	Leu	Glu	Gly	Lys	Gly	Phe	Glu	Pro	Thr	Leu	Glu	Ala	Pro
				690				695				700			
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Phe	Gly	Lys	Gln	Gly	Phe	Phe	Pro	Asp	Ser	Val	Asn	Lys	Ala	Leu	Tyr
				705				710				715			720
tgg	gtt	aat	ggt	caa	gtt	cct	gat	ggt	gtc	tct	aag	gtc	tta	gtg	gac
Trp	Val	Asn	Gly	Gln	Val	Pro	Asp	Gly	Val	Ser	Lys	Val	Leu	Val	Asp
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DOC0216USSEQ2.txt

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agt atg acc ttg tcc agt gaa gtc caa att ccg gat ttt gat gtt gac		3216
Ser Met Thr Leu Ser Ser Glu Val Gln Ile Pro Asp Phe Asp Val Asp		
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Leu Gly Thr Ile Leu Arg Val Asn Asp Glu Ser Thr Glu Gly Lys Thr		
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Ser Tyr Arg Leu Thr Leu Asp Ile Gln Asn Lys Lys Ile Thr Glu Val		
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Ala Leu Met Gly His Leu Ser Cys Asp Thr Lys Glu Glu Arg Lys Ile		
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Lys Gly Val Ile Ser Ile Pro Arg Leu Gln Ala Glu Ala Arg Ser Glu		
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Ile Leu Ala His Trp Ser Pro Ala Lys Leu Leu Gln Met Asp Ser		
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Ser Ala Thr Ala Tyr Gly Ser Thr Val Ser Lys Arg Val Ala Trp His		
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Tyr Asp Glu Glu Lys Ile Glu Phe Glu Trp Asn Thr Gly Thr Asn Val		
1170	1175	1180
gat acc aaa aaa atg act tcc aat ttc cct gtg gat ctc tcc gat tat		3600
Asp Thr Lys Lys Met Thr Ser Asn Phe Pro Val Asp Leu Ser Asp Tyr		
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1200		
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Pro Lys Ser Leu His Met Tyr Ala Asn Arg Leu Leu Asp His Arg Val		
1205	1210	1215
cct caa aca gac atg act ttc cgg cac gtg ggt tcc aaa tta ata gtt		3696
Pro Gln Thr Asp Met Thr Phe Arg His Val Gly Ser Lys Leu Ile Val		
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gca atg agc tca tgg ctt cag aag gca tct ggg agt ctt cct tat acc		3744
Ala Met Ser Ser Trp Leu Gln Lys Ala Ser Gly Ser Leu Pro Tyr Thr		
1235	1240	1245
cag act ttg caa gac cac ctc aat agc ctg aag gag ttc aac ctc cag		3792
Gln Thr Leu Gln Asp His Leu Asn Ser Leu Lys Glu Phe Asn Leu Gln		

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agc gat ggc cgc gtc aaa tat acc ttg aac aag aac agt ttg aaa att Ser Asp Gly Arg Val Lys Tyr Thr Leu Asn Lys Asn Ser Leu Lys Ile 1285 1290 1295			3888
gag att cct ttg cct ttt ggt ggc aaa tcc tcc aga gat cta aag atg Glu Ile Pro Leu Pro Phe Gly Gly Lys Ser Ser Arg Asp Leu Lys Met 1300 1305 1310			3936
tta gag act gtt agg aca cca gcc ctc cac ttc aag tct gtg gga ttc Leu Glu Thr Val Arg Thr Pro Ala Leu His Phe Lys Ser Val Gly Phe 1315 1320 1325			3984
cat ctg cca tct cga gag ttc caa gtc cct act ttt acc att ccc aag His Leu Pro Ser Arg Glu Phe Gln Val Pro Thr Phe Thr Ile Pro Lys 1330 1335 1340			4032
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aat gtc tac agc aac ttg tac aac tgg tcc gcc tcc tac agt ggt ggc Asn Val Tyr Ser Asn Leu Tyr Asn Trp Ser Ala Ser Tyr Ser Gly Gly 1365 1370 1375			4128
aac acc agc aca gac cat ttc agc ctt cgg gct cgt tac cac atg aag Asn Thr Ser Thr Asp His Phe Ser Leu Arg Ala Arg Tyr His Met Lys 1380 1385 1390			4176
gct gac tct gtg gtt gac ctg ctt tcc tac aat gtg caa gga tct gga Ala Asp Ser Val Val Asp Leu Leu Ser Tyr Asn Val Gln Gly Ser Gly 1395 1400 1405			4224
gaa aca aca tat gac cac aag aat acg ttc aca cta tca tgt gat ggg Glu Thr Thr Tyr Asp His Lys Asn Thr Phe Thr Leu Ser Cys Asp Gly 1410 1415 1420			4272
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gaa aaa ctt gga aac aac cca gtc tca aaa ggt tta cta ata ttc gat Glu Lys Leu Gly Asn Asn Pro Val Ser Lys Gly Leu Leu Ile Phe Asp 1445 1450 1455			4368
gca tct agt tcc tgg gga cca cag atg tct gct tca gtt cat ttg gac Ala Ser Ser Ser Trp Gly Pro Gln Met Ser Ala Ser Val His Leu Asp 1460 1465 1470			4416
tcc aaa aag aaa cag cat ttg ttt gtc aaa gaa gtc aag att gat ggg Ser Lys Lys Lys Gln His Leu Phe Val Lys Glu Val Lys Ile Asp Gly 1475 1480 1485			4464
cag ttc aga gtc tct tcg ttc tat gct aaa ggc aca tat ggc ctg tct Gln Phe Arg Val Ser Ser Phe Tyr Ala Lys Gly Thr Tyr Gly Leu Ser 1490 1495 1500			4512
tgt cag agg gat cct aac act ggc cgg ctc aat gga gag tcc aac ctg Cys Gln Arg Asp Pro Asn Thr Gly Arg Leu Asn Gly Glu Ser Asn Leu 1505 1510 1515 1520			4560
agg ttt aac tcc tcc tac ctc caa ggc acc aac cag ata aca gga aga			4608

DOC0216USSEQ2.txt

Arg Phe Asn Ser Ser Tyr Leu Gln Gly Thr Asn Gln Ile Thr Gly Arg			
1525	1530	1535	
tat gaa gat gga acc ctc tcc ctc acc tcc acc tct gat ctg caa agt			4656
Tyr Glu Asp Gly Thr Leu Ser Leu Thr Ser Thr Ser Asp Leu Gln Ser			
1540	1545	1550	
ggc atc att aaa aat act gct tcc cta aag tat gag aac tac gag ctg			4704
Gly Ile Ile Lys Asn Thr Ala Ser Leu Lys Tyr Glu Asn Tyr Glu Leu			
1555	1560	1565	
act tta aaa tct gac acc aat ggg aag tat aag aac ttt gcc act tct			4752
Thr Leu Lys Ser Asp Thr Asn Gly Lys Tyr Lys Asn Phe Ala Thr Ser			
1570	1575	1580	
aac aag atg gat atg acc ttc tct aag caa aat gca ctg ctg cgt tct			4800
Asn Lys Met Asp Met Thr Phe Ser Lys Gln Asn Ala Leu Leu Arg Ser			
1585	1590	1595	1600
gaa tat cag gct gat tac gag tca ttg agg ttc ttc agc ctg ctt tct			4848
Glu Tyr Gln Ala Asp Tyr Glu Ser Leu Arg Phe Phe Ser Leu Leu Ser			
1605	1610	1615	
gga tca cta aat tcc cat ggt ctt gag tta aat gct gac atc tta ggc			4896
Gly Ser Leu Asn Ser His Gly Leu Glu Leu Asn Ala Asp Ile Leu Gly			
1620	1625	1630	
act gac aaa att aat agt ggt gct cac aag gcg aca cta agg att ggc			4944
Thr Asp Lys Ile Asn Ser Gly Ala His Lys Ala Thr Leu Arg Ile Gly			
1635	1640	1645	
caa gat gga ata tct acc agt gca acg acc aac ttg aag tgt agt ctc			4992
Gln Asp Gly Ile Ser Thr Ser Ala Thr Thr Asn Leu Lys Cys Ser Leu			
1650	1655	1660	
ctg gtg ctg gag aat gag ctg aat gca gag ctt ggc ctc tct ggg gca			5040
Leu Val Leu Glu Asn Glu Leu Asn Ala Glu Leu Gly Leu Ser Gly Ala			
1665	1670	1675	1680
tct atg aaa tta aca aca aat ggc cgc ttc agg gaa cac aat gca aaa			5088
Ser Met Lys Leu Thr Thr Asn Gly Arg Phe Arg Glu His Asn Ala Lys			
1685	1690	1695	
ttc agt ctg gat ggg aaa gcc gcc ctc aca gag cta tca ctg gga agt			5136
Phe Ser Leu Asp Gly Lys Ala Ala Leu Thr Glu Leu Ser Leu Gly Ser			
1700	1705	1710	
gct tat cag gcc atg att ctg ggt gtc gac agc aaa aac att ttc aac			5184
Ala Tyr Gln Ala Met Ile Leu Gly Val Asp Ser Lys Asn Ile Phe Asn			
1715	1720	1725	
ttc aag gtc agt caa gaa gga ctt aag ctc tca aat gac atg atg ggc			5232
Phe Lys Val Ser Gln Glu Gly Leu Lys Leu Ser Asn Asp Met Met Gly			
1730	1735	1740	
tca tat gct gaa atg aaa ttt gac cac aca aac agt ctg aac att gca			5280
Ser Tyr Ala Glu Met Lys Phe Asp His Thr Asn Ser Leu Asn Ile Ala			
1745	1750	1755	1760
ggc tta tca ctg gac ttc tct tca aaa ctt gac aac att tac agc tct			5328
Gly Leu Ser Leu Asp Phe Ser Ser Lys Leu Asp Asn Ile Tyr Ser Ser			
1765	1770	1775	
gac aag ttt tat aag caa act gtt aat tta cag cta cag ccc tat tct			5376
Asp Lys Phe Tyr Lys Gln Thr Val Asn Leu Gln Leu Gln Pro Tyr Ser			

		DOC0216USSEQ2.txt		
1780		1785		1790
ctg gta act act tta aac agt gac ctg aaa tac aat gct ctg gat ctc Leu Val Thr Thr Leu Asn Ser Asp Leu Lys Tyr Asn Ala Leu Asp Leu 1795 1800 1805				5424
acc aac aat ggg aaa cta cgg cta gaa ccc ctg aag ctg cat gtg gct Thr Asn Asn Gly Lys Leu Arg Leu Glu Pro Leu Lys Leu His Val Ala 1810 1815 1820				5472
ggt aac cta aaa gga gcc tac caa aat aat gaa ata aaa cac atc tat Gly Asn Leu Lys Gly Ala Tyr Gln Asn Asn Glu Ile Lys His Ile Tyr 1825 1830 1835 1840				5520
gcc atc tct tct gct gcc tta tca gca agc tat aaa gca gac act gtt Ala Ile Ser Ser Ala Ala Leu Ser Ala Ser Tyr Lys Ala Asp Thr Val 1845 1850 1855				5568
gct aag gtt cag ggt gtg gag ttt agc cat ggg ctc aac aca gac atc Ala Lys Val Gln Gly Val Glu Phe Ser His Gly Leu Asn Thr Asp Ile 1860 1865 1870				5616
gct ggg ctg gct tca gcc att gac atg agc aca aac tat aat tca gac Ala Gly Leu Ala Ser Ala Ile Asp Met Ser Thr Asn Tyr Asn Ser Asp 1875 1880 1885				5664
tca ctg cat ttc agc aat gtc ttc cgt tct gta atg gcc ccg ttt acc Ser Leu His Phe Ser Asn Val Phe Arg Ser Val Met Ala Pro Phe Thr 1890 1895 1900				5712
atg acc atc gat gca cat aca aat ggc aat ggg aaa ctc gct ctc tgg Met Thr Ile Asp Ala His Thr Asn Gly Asn Gly Lys Leu Ala Leu Trp 1905 1910 1915 1920				5760
gga gaa cat act ggg cag ctg tat agc aaa ttc ctg ttg aaa gca gaa Gly Glu His Thr Gly Gln Leu Tyr Ser Lys Phe Leu Leu Lys Ala Glu 1925 1930 1935				5808
cct ctg gca ttt act ttc tct cat gat tac aaa ggc tcc aca agt cat Pro Leu Ala Phe Thr Phe Ser His Asp Tyr Lys Gly Ser Thr Ser His 1940 1945 1950				5856
cat ctc gtg tct agg aaa agc atc agt gca gct ctt gaa cac aaa gtc His Leu Val Ser Arg Lys Ser Ile Ser Ala Ala Leu Glu His Lys Val 1955 1960 1965				5904
agt gcc ctg ctt act cca gct gag cag aca ggc acc tgg aaa ctc aag Ser Ala Leu Leu Thr Pro Ala Glu Gln Thr Gly Thr Trp Lys Leu Lys 1970 1975 1980				5952
acc caa ttt aac aac aat gaa tac agc cag gac ttg gat gct tac aac Thr Gln Phe Asn Asn Asn Glu Tyr Ser Gln Asp Leu Asp Ala Tyr Asn 1985 1990 1995 2000				6000
act aaa gat aaa att ggc gtg gag ctt act gga cga act ctg gct gac Thr Lys Asp Lys Ile Gly Val Glu Leu Thr Gly Arg Thr Leu Ala Asp 2005 2010 2015				6048
cta act cta cta gac tcc cca att aaa gtg cca ctt tta ctc agt gag Leu Thr Leu Leu Asp Ser Pro Ile Lys Val Pro Leu Leu Leu Ser Glu 2020 2025 2030				6096
ccc atc aat atc aat gat gct tta gag atg aga gat gcc gtt gag aag Pro Ile Asn Ile Asn Asp Ala Leu Glu Met Arg Asp Ala Val Glu Lys 2035 2040 2045				6144

DOC0216USSEQ2.txt

ccc caa gaa ttt aca att gtt gct ttt gta aag tat gat aaa aac caa Pro Gln Glu Phe Thr Ile Val Ala Phe Val Lys Tyr Asp Lys Asn Gln 2050 2055 2060	6192
gat gtt cac tcc att aac ctc cca ttt ttt gag acc ttg caa gaa tat Asp Val His Ser Ile Asn Leu Pro Phe Phe Glu Thr Leu Gln Glu Tyr 2065 2070 2075 2080	6240
ttt gag agg aat cga caa acc att ata gtt gta ctg gaa aac gta cag Phe Glu Arg Asn Arg Gln Thr Ile Ile Val Val Leu Glu Asn Val Gln 2085 2090 2095	6288
aga aac ctg aag cac atc aat att gat caa ttt gta aga aaa tac aga Arg Asn Leu Lys His Ile Asn Ile Asp Gln Phe Val Arg Lys Tyr Arg 2100 2105 2110	6336
gca gcc ctg gga aaa ctc cca cag caa gct aat gat tat ctg aat tca Ala Ala Leu Gly Lys Leu Pro Gln Gln Ala Asn Asp Tyr Leu Asn Ser 2115 2120 2125	6384
ttc aat tgg gag aga caa gtt tca cat gcc aag gag aaa ctg act gct Phe Asn Trp Glu Arg Gln Val Ser His Ala Lys Glu Lys Leu Thr Ala 2130 2135 2140	6432
ctc aca aaa aag tat aga att aca gaa aat gat ata caa att gca tta Leu Thr Lys Lys Tyr Arg Ile Thr Glu Asn Asp Ile Gln Ile Ala Leu 2145 2150 2155 2160	6480
gat gat gcc aaa atc aac ttt aat gaa aaa cta tct caa ctg cag aca Asp Asp Ala Lys Ile Asn Phe Asn Glu Lys Leu Ser Gln Leu Gln Thr 2165 2170 2175	6528
tat atg ata caa ttt gat cag tat att aaa gat agt tat gat tta cat Tyr Met Ile Gln Phe Asp Gln Tyr Ile Lys Asp Ser Tyr Asp Leu His 2180 2185 2190	6576
gat ttg aaa ata gct att gct aat att att gat gaa atc att gaa aaa Asp Leu Lys Ile Ala Ile Ala Asn Ile Ile Asp Glu Ile Ile Glu Lys 2195 2200 2205	6624
tta aaa agt ctt gat gag cac tat cat acc cgt gta aat tta gta aaa Leu Lys Ser Leu Asp Glu His Tyr His Thr Arg Val Asn Leu Val Lys 2210 2215 2220	6672
aca atc cat gat cta cat ttg ttt att gaa aat att gat ttt aac aaa Thr Ile His Asp Leu His Leu Phe Ile Glu Asn Ile Asp Phe Asn Lys 2225 2230 2235 2240	6720
agt gga agt agt act gca tcc tgg att caa aat gtg gat act aag tac Ser Gly Ser Ser Thr Ala Ser Trp Ile Gln Asn Val Asp Thr Lys Tyr 2245 2250 2255	6768
caa atc aga atc cag ata caa gaa aaa ctg cag cag ctt aag aga cac Gln Ile Arg Ile Gln Ile Gln Glu Lys Leu Gln Gln Leu Lys Arg His 2260 2265 2270	6816
ata cag aat ata gac atc cag cac cta gct gga aag tta aaa caa cac Ile Gln Asn Ile Asp Ile Gln His Leu Ala Gly Lys Leu Lys Gln His 2275 2280 2285	6864
att gag gct att gat gtt aga gtg ctt tta gat caa ttg gga act aca Ile Glu Ala Ile Asp Val Arg Val Leu Leu Asp Gln Leu Gly Thr Thr 2290 2295 2300	6912
att tca ttt gaa aga ata aat gat gtt ctt gag cat gtc aaa cac ttt Ile Ser Phe Glu Arg Ile Asn Asp Val Leu Glu His Val Lys His Phe	6960

DOC0216USSEQ2.txt

2305	2310	2315	2320	
gtt ata aat ctt att ggg gat ttt gaa gta gct gag aaa atc aat gcc Val Ile Asn Leu Ile Gly Asp Phe Glu Val Ala Glu Lys Ile Asn Ala 2325 2330 2335				7008
ttc aga gcc aaa gtc cat gag tta atc gag agg tat gaa gta gac caa Phe Arg Ala Lys Val His Glu Leu Ile Glu Arg Tyr Glu Val Asp Gln 2340 2345 2350				7056
caa atc cag gtt tta atg gat aaa tta gta gag ttg gcc cac caa tac Gln Ile Gln Val Leu Met Asp Lys Leu Val Glu Leu Ala His Gln Tyr 2355 2360 2365				7104
aag ttg aag gag act att cag aag cta agc aat gtc cta caa caa gtt Lys Leu Lys Glu Thr Ile Gln Lys Leu Ser Asn Val Leu Gln Gln Val 2370 2375 2380				7152
aag ata aaa gat tac ttt gag aaa ttg gtt gga ttt att gat gat gct Lys Ile Lys Asp Tyr Phe Glu Lys Leu Val Gln Phe Ile Asp Asp Ala 2385 2390 2395 2400				7200
gtc aag aag ctt aat gaa tta tct ttt aaa aca ttc att gaa gat gtt Val Lys Lys Leu Asn Glu Leu Ser Phe Lys Thr Phe Ile Glu Asp Val 2405 2410 2415				7248
aac aaa ttc ctt gac atg ttg ata aag aaa tta aag tca ttt gat tac Asn Lys Phe Leu Asp Met Leu Ile Lys Lys Leu Lys Ser Phe Asp Tyr 2420 2425 2430				7296
cac cag ttt gta gat gaa acc aat gac aaa atc cgt gag gtg act cag His Gln Phe Val Asp Glu Thr Asn Asp Lys Ile Arg Glu Val Thr Gln 2435 2440 2445				7344
aga ctc aat ggt gaa att cag gct ctg gaa cta cca caa aaa gct gaa Arg Leu Asn Gly Glu Ile Gln Ala Leu Glu Leu Pro Gln Lys Ala Glu 2450 2455 2460				7392
gca tta aaa ctg ttt tta gag gaa acc aag gcc aca gtt gca gtg tat Ala Leu Lys Leu Phe Leu Glu Glu Thr Lys Ala Thr Val Ala Val Tyr 2465 2470 2475 2480				7440
ctg gaa agc cta cag gac acc aaa ata acc tta atc atc aat tgg tta Leu Glu Ser Leu Gln Asp Thr Lys Ile Thr Leu Ile Ile Asn Trp Leu 2485 2490 2495				7488
cag gag gct tta agt tca gca tct ttg gct cac atg aag gcc aaa ttc Gln Glu Ala Leu Ser Ser Ala Ser Leu Ala His Met Lys Ala Lys Phe 2500 2505 2510				7536
cga gag act cta gaa gat aca cga gac cga atg tat caa atg gac att Arg Glu Thr Leu Glu Asp Thr Arg Asp Arg Met Tyr Gln Met Asp Ile 2515 2520 2525				7584
cag cag gaa ctt caa cga tac ctg tct ctg gta ggc cag gtt tat agc Gln Gln Glu Leu Gln Arg Tyr Leu Ser Leu Val Gln Gln Val Tyr Ser 2530 2535 2540				7632
aca ctt gtc acc tac att tct gat tgg tgg act ctt gct gct aag aac Thr Leu Val Thr Tyr Ile Ser Asp Trp Trp Thr Leu Ala Ala Lys Asn 2545 2550 2555 2560				7680
ctt act gac ttt gca gag caa tat tct atc caa gat tgg gct aaa cgt Leu Thr Asp Phe Ala Glu Gln Tyr Ser Ile Gln Asp Trp Ala Lys Arg 2565 2570 2575				7728

DOC0216USSEQ2.txt

atg aaa gca ttg gta gag caa ggg ttc act gtt cct gaa atc aag acc Met Lys Ala Leu Val Glu Gln Gly Phe Thr Val Pro Glu Ile Lys Thr 2580 2585 2590	7776
atc ctt ggg acc atg cct gcc ttt gaa gtc agt ctt cag gct ctt cag Ile Leu Gly Thr Met Pro Ala Phe Glu Val Ser Leu Gln Ala Leu Gln 2595 2600 2605	7824
aaa gct acc ttc cag aca cct gat ttt ata gtc ccc cta aca gat ttg Lys Ala Thr Phe Gln Thr Pro Asp Phe Ile Val Pro Leu Thr Asp Leu 2610 2615 2620	7872
agg att cca tca gtt cag ata aac ttc aaa gac tta aaa aat ata aaa Arg Ile Pro Ser Val Gln Ile Asn Phe Lys Asp Leu Lys Asn Ile Lys 2625 2630 2635 2640	7920
atc cca tcc agg ttt tcc aca cca gaa ttt acc atc ctt aac acc ttc Ile Pro Ser Arg Phe Ser Thr Pro Glu Phe Thr Ile Leu Asn Thr Phe 2645 2650 2655	7968
cac att cct tcc ttt aca att gac ttt gta gaa atg aaa gta aag atc His Ile Pro Ser Phe Thr Ile Asp Phe Val Glu Met Lys Val Lys Ile 2660 2665 2670	8016
atc aga acc att gac cag atg ctg aac agt gag ctg cag tgg ccc gtt Ile Arg Thr Ile Asp Gln Met Leu Asn Ser Glu Leu Gln Trp Pro Val 2675 2680 2685	8064
cca gat ata tat ctc agg gat ctg aag gtg gag gac att cct cta gcg Pro Asp Ile Tyr Leu Arg Asp Leu Lys Val Glu Asp Ile Pro Leu Ala 2690 2695 2700	8112
aga atc acc ctg cca gac ttc cgt tta cca gaa atc gca att cca gaa Arg Ile Thr Leu Pro Asp Phe Arg Leu Pro Glu Ile Ala Ile Pro Glu 2705 2710 2715 2720	8160
ttc ata atc cca act ctc aac ctt aat gat ttt caa gtt cct gac ctt Phe Ile Ile Pro Thr Leu Asn Leu Asn Asp Phe Gln Val Pro Asp Leu 2725 2730 2735	8208
cac ata cca gaa ttc cag ctt ccc cac atc tca cac aca att gaa gta His Ile Pro Glu Phe Gln Leu Pro His Ile Ser His Thr Ile Glu Val 2740 2745 2750	8256
cct act ttt ggc aag cta tac agt att ctg aaa atc caa tct cct ctt Pro Thr Phe Gly Lys Leu Tyr Ser Ile Leu Lys Ile Gln Ser Pro Leu 2755 2760 2765	8304
ttc aca tta gat gca aat gct gac ata ggg aat gga acc acc tca gca Phe Thr Leu Asp Ala Asn Ala Asp Ile Gly Asn Gly Thr Thr Ser Ala 2770 2775 2780	8352
aac gaa gca ggt atc gca gct tcc atc act gcc aaa gga gag tcc aaa Asn Glu Ala Gly Ile Ala Ala Ser Ile Thr Ala Lys Gly Glu Ser Lys 2785 2790 2795 2800	8400
tta gaa gtt ctc aat ttt gat ttt caa gca aat gca caa ctc tca aac Leu Glu Val Leu Asn Phe Asp Phe Gln Ala Asn Ala Gln Leu Ser Asn 2805 2810 2815	8448
cct aag att aat ccg ctg gct ctg aag gag tca gtg aag ttc tcc agc Pro Lys Ile Asn Pro Leu Ala Leu Lys Glu Ser Val Lys Phe Ser Ser 2820 2825 2830	8496
aag tac ctg aga acg gag cat ggg agt gaa atg ctg ttt ttt gga aat Lys Tyr Leu Arg Thr Glu His Gly Ser Glu Met Leu Phe Phe Gly Asn	8544

DOC0216USSE02.txt

gct att gag gga aaa tca aac aca gto gca agt tta cac aca gaa aaa Ala Ile Glu Gly Lys Ser Asn Thr Val Ala Ser Leu His Thr Glu Lys 2850 2855 2860	8592
aat aca ctg gag ctt agt aat gga gtg att gtc aag ata aac aat cag Asn Thr Leu Glu Leu Ser Asn Gly Val Ile Val Lys Ile Asn Asn Gln 2865 2870 2875 2880	8640
ctt acc ctg gat agc aac act aaa tac ttc cac aaa ttg aac atc ccc Leu Thr Leu Asp Ser Asn Thr Lys Tyr Phe His Lys Leu Asn Ile Pro 2885 2890 2895	8688
aaa ctg gac ttc tct agt cag gct gac ctg cgc aac gag atc aag aca Lys Leu Asp Phe Ser Ser Gln Ala Asp Leu Arg Asn Glu Ile Lys Thr 2900 2905 2910	8736
ctg ttg aaa gct ggc cac ata gca tgg act tct tct gga aaa ggg tca Leu Leu Lys Ala Gly His Ile Ala Trp Thr Ser Ser Gly Lys Gly Ser 2915 2920 2925	8784
tgg aaa tgg gcc tcg ccc aga ttc tca gat gag gga aca cat gaa tca Trp Lys Trp Ala Ser Pro Arg Phe Ser Asp Glu Gly Thr His Glu Ser 2930 2935 2940	8832
caa att agt ttc acc ata gaa gga ccc ctc act tcc ttt gga ctg tcc Gln Ile Ser Phe Thr Ile Glu Gly Pro Leu Thr Ser Phe Gly Leu Ser 2945 2950 2955 2960	8880
aat aag atc aat agc aaa cac cta aga gta aac caa aac ttg gtt tat Asn Lys Ile Asn Ser Lys His Leu Arg Val Asn Gln Asn Leu Val Tyr 2965 2970 2975	8928
gaa tct ggc tcc ctc aac ttt tct aaa ctt gaa att caa tca caa gtc Glu Ser Gly Ser Leu Asn Phe Ser Lys Leu Glu Ile Gln Ser Gln Val 2980 2985 2990	8976
gat tcc cag cat gtg ggc cac agt gtt cta act gct aaa ggc atg gca Asp Ser Gln His Val Gly His Ser Val Leu Thr Ala Lys Gly Met Ala 2995 3000 3005	9024
ctg ttt gga gaa ggg aag gca gag ttt act ggg agg cat gat gct cat Leu Phe Gly Glu Gly Lys Ala Glu Phe Thr Gly Arg His Asp Ala His 3010 3015 3020	9072
tta aat gga aag gtt att gga act ttg aaa aat tct ctt ttc ttt tca Leu Asn Gly Lys Val Ile Gly Thr Leu Lys Asn Ser Leu Phe Phe Ser 3025 3030 3035 3040	9120
gcc cag cca ttt gag atc acg gca tcc aca aac aat gaa ggg aat ttg Ala Gln Pro Phe Glu Ile Thr Ala Ser Thr Asn Asn Glu Gly Asn Leu 3045 3050 3055	9168
aaa gtt cgt ttt cca tta agg tta aca ggg aag ata gac ttc ctg aat Lys Val Arg Phe Pro Leu Arg Leu Thr Gly Lys Ile Asp Phe Leu Asn 3060 3065 3070	9216
aac tat gca ctg ttt ctg agt ccc agt gcc cag caa gca agt tgg caa Asn Tyr Ala Leu Phe Leu Ser Pro Ser Ala Gln Gln Ala Ser Trp Gln 3075 3080 3085	9264
gta agt gct agg ttc aat cag tat aag tac aac caa aat ttc tct gct Val Ser Ala Arg Phe Asn Gln Tyr Lys Tyr Asn Gln Asn Phe Ser Ala 3090 3095 3100	9312

DOC0216USSEQ2.txt

gga aac aac gag aac att atg gag gcc cat gta gga ata aat gga gaa Gly Asn Asn Glu Asn Ile Met Glu Ala His Val Gly Ile Asn Gly Glu 3105 3110 3115 3120	9360
gca aat ctg gat ttc tta aac att cct tta aca att cct gaa atg cgt Ala Asn Leu Asp Phe Leu Asn Ile Pro Leu Thr Ile Pro Glu Met Arg 3125 3130 3135	9408
cta cct tac aca ata atc aca act cct cca ctg aaa gat ttc tct cta Leu Pro Tyr Thr Ile Thr Pro Pro Leu Lys Asp Phe Ser Leu 3140 3145 3150	9456
tgg gaa aaa aca ggc ttg aag gaa ttc ttg aaa acg aca aag caa tca Trp Glu Lys Thr Gly Leu Lys Glu Phe Leu Lys Thr Thr Lys Gln Ser 3155 3160 3165	9504
ttt gat tta agt gta aaa gct cag tat aag aaa aac aaa cac agg cat Phe Asp Leu Ser Val Lys Ala Gln Tyr Lys Asn Lys His Arg His 3170 3175 3180	9552
tcc atc aca aat cct ttg gct gtg ctt tgt gag ttt atc agt cag agc Ser Ile Thr Asn Pro Leu Ala Val Cys Glu Phe Ile Ser Gln Ser 3185 3190 3195 3200	9600
atc aaa tcc ttt gac agg cat ttt gaa aaa aac aga aac aat gca tta Ile Lys Ser Phe Asp Arg His Phe Glu Lys Asn Arg Asn Asn Ala Leu 3205 3210 3215	9648
gat ttt gtc acc aaa tcc tat aat gaa aca aaa att aag ttt gat aag Asp Phe Val Thr Lys Ser Tyr Asn Glu Thr Lys Ile Lys Phe Asp Lys 3220 3225 3230	9696
tac aaa gct gaa aaa tct cac gac gag ctc ccc agg acc ttt caa att Tyr Lys Ala Glu Lys Ser His Asp Glu Leu Pro Arg Thr Phe Gln Ile 3235 3240 3245	9744
cct gga tac act gtt cca gtt gtc aat gtt gaa gtg tct cca ttc acc Pro Gly Tyr Thr Val Pro Val Val Asn Val Glu Val Ser Pro Phe Thr 3250 3255 3260	9792
ata gag atg tcg gca ttc ggc tat gtg ttc cca aaa gca gtc agc atg Ile Glu Met Ser Ala Phe Gly Tyr Val Phe Pro Lys Ala Val Ser Met 3265 3270 3275 3280	9840
cct agt ttc tcc atc ata ggt tct gac gtc cgt gtg cct tca tac aca Pro Ser Phe Ser Ile Ile Gly Ser Asp Val Arg Val Pro Ser Tyr Thr 3285 3290 3295	9888
tta atc ctg cca tca tta gag ctg cca gtc ctt cat gtc cct aga aat Leu Ile Leu Pro Ser Leu Glu Leu Pro Val Leu His Val Pro Arg Asn 3300 3305 3310	9936
ctc aag ctt tct ctt cca gat ttc aag gaa ttg tgt acc ata agc cat Leu Lys Leu Ser Leu Pro Asp Phe Lys Glu Leu Cys Thr Ile Ser His 3315 3320 3325	9984
att ttt att cct gcc atg ggc aat att acc tat gat ttc tcc ttt aaa Ile Phe Ile Pro Ala Met Gly Asn Ile Thr Tyr Asp Phe Ser Phe Lys 3330 3335 3340	10032
tca agt gtc atc aca ctg aat acc aat gct gaa ctt ttt aac cag tca Ser Ser Val Ile Thr Leu Asn Thr Asn Ala Glu Leu Phe Asn Gln Ser 3345 3350 3355 3360	10080

DOC0216USSEQ2.txt																
gat	att	gtt	gct	cat	ctc	ctt	tct	tca	tct	tca	tct	gtc	att	gat	gca	10128
Asp	Ile	Val	Ala	His	Leu	Leu	Ser	Ser	Ser	Ser	Ser	Ser	Val	Ile	Asp	Ala
3365								3370						3375		
ctg	cag	tac	aaa	tta	gag	ggc	acc	aca	aga	ttg	aca	aga	aaa	agg	gga	10176
Leu	Gln	Tyr	Lys	Leu	Gl	Gly	Thr	Thr	Arg	Leu	Thr	Arg	Lys	Arg	Gly	
3380					3385							3390				
ttg	aag	tta	gcc	aca	gct	ctg	tct	ctg	agc	aac	aaa	ttt	gtg	gag	ggt	10224
Leu	Lys	Leu	Ala	Thr	Ala	Leu	Ser	Leu	Ser	Asn	Lys	Phe	Val	Glu	Gly	
3395						3400					3405					
agt	cat	aac	agt	act	gtg	agc	tta	acc	acg	aaa	aat	atg	gaa	gtg	tca	10272
Ser	His	Asn	Ser	Thr	Val	Ser	Leu	Thr	Thr	Lys	Asn	Met	Glu	Val	Ser	
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gctgacatct tgggcactga caaatgaat actgctgctc acaaggcaac tctaagaatt 180
ggccaaaatg gagtatctac cagtgcaca accagttga ggtacagtcc cctgatgctg 240
gagaatgagc tgaacgcaga gcttgccctt tctggggcat ctatgaaatt agcaacaat 300
ggccgcttca aggaacacaa tgcaaaattc agcctagatg ggaaagctac cctcacagag 360
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432

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<211> 660

<212> DNA

<213> O. cuniculus

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gatatacaaa ctgcatttga taatgccaaa atcaacttaa atgaaaaact gtctcaactt 180
cagacatatg tgatataatt tgatcagtat attaaagata attttgatct acatgatttt 240
aaaatagcta tagcttagtat tatacatcaa atcatggaaa aataaaaat tcttgatgaa 300
cgttatcata tccgtgcaca tttaattaaa tcaatccata atttatattt gtttattgaa 360
gctattgatt ttaacaaaat tggaagtagt actgcattt ggattcaaaa tgtggatacc 420
aagtatcaag tcagaatctg gatacaagaa atattgcaac agtttaagac acagattcag 480
aatacaaaca tcccataacct ggctgaaaaa ctgaaacaac agattgaggc tattgatgtc 540
agagtgttt tagatcaatt gagaactaca attccatttc gtataataaa ggacattatt 600
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cctggataca ttattccaat tttcaatntt gaagtatctc cactcacaat agnagacgtn 180
agcattcagt catgtgatcc caaatcaat aagcacccccc aatgtcacca tcctggattc 240
aagcttctat gtgccttcat atacattggc tctgccatcc ctagagctgc cagtcttcca 300
tgtccccagg aatctactca aggtctctct tccagatttc aaggaattga aaaccattaa 360
caatattttt attccagcca tggcaacat tacctatgaa ttttccttca aatcaacgat 420
cattacactg aataccaatg ctggacttta taaccaatca gacattgttg cccatatcct 480
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543

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DOC0216USSEQ2.txt

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aggacagAGC cttgggtggAC accCTGAAGT ttGtaactCA agcAGAAGGT gtAAAGCAGA 180
ctgaggctac catgacATTC aaATATAATC ggcAGAGTAT gacCTTGTCC agtGAAGTCC 240
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agggcagAAA gtCTTACAGA ctcACCCCTGG acattCAGAA ccAGAAAATT actGAGGTCA 360
ccCTCATGGG ccACCTAAGT tgtGACACAA agGAAGAAGG AAAAATCAA ggtGTTATTT 420
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gatcccggtg tcaggtggaa gtactgcac ctgacgcatt gctcagacgc agaaggact 720
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DOC0216USSEQ2.txt

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